

# Ciona intestinalis

## **Solitary Tunicate**

#### **Threat Scores**

- i. Ecological Impact
  - Negative effects on aquaculture and native species; destruction of habitat; fouling
- 2. Invasive potential
  - A fouling organism requiring assisted transport to expand alien range
- 3. Geographic extent
  - Found in a variety of ecoregions all over the world.
  - Regionally patchy
- 4. Management difficulty
  - Anitfoulants (TBT and novel modern coatings) and copper compounds

### Geography and Habitat

- 1. Native: Arctic to Rhode Island
- 2. Introduced: Pacific Coast from Alaska to California
- 3. Habitat
  - Marine

#### **Invasion Pathways**

- 1. Stocking in open water
- 2. Hull/Surface fouling
- 3. Other animal trade
  - Introduced after being discarded from scientific research

#### Non-Native Locations

- 1. 54- Gulf of Alaska
- 2. 55- N. American Pacific Fijordland
- 3. 56- Puget Trough/Georgia Basin
- 4. 57- OR, WA, Vancouver
- 5. 58- Northern California
- 6. 59- Southern California Bight

#### Sources

- 1. Molnar, Jennifer et al. 2008. Assessing the global threat of invasive species to marine biodiversity. Frontiers in Ecology and the Environment. Vol. 6, No. 9, pp. 485-492.
- 2. http://conserveonline.org/workspaces/global.invasive.assessment
- 3. http://www.marlin.ac.uk/imgs/o\_cioint3.jpg

